



Name: _____

Pre Algebra Expressions

Use the known variable to evaluate each expression. Show your work
(Basic with Brackets, Addition, Subtraction and Multiplication) NOTE:
a dot means to multiply.

Evaluate each expression when $y = 4$.

1. $3 \cdot (8 \cdot y - 3) + 8 \cdot (4 + y) =$

2. $(2 \cdot y + 3) + (5 \cdot y - 7) =$

3. $6 \cdot (3 \cdot y - 4) + 2 \cdot (5 + y) =$

4. $4 \cdot (7 \cdot y - 3) + 4 \cdot (8 + y) =$

5. $(8 \cdot y + 7) + (3 \cdot y - 7) =$

6. $5 \cdot (3 \cdot y - 5) + 5 \cdot (4 + y) =$

7. $3 \cdot (2 \cdot y - 5) + 8 \cdot (5 + y) =$

8. $7 \cdot (2 \cdot y - 4) + 7 \cdot (8 + y) =$

9. $(3 \cdot y + 3) + (7 \cdot y - 7) =$

10. $3 \cdot (2 \cdot y - 2) + 5 \cdot (8 + y) =$



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Evaluate each expression when $y = 4$.

1. $3 \cdot (8 \cdot y - 3) + 8 \cdot (4 + y) = 151$ 2. $(2 \cdot y + 3) + (5 \cdot y - 7) = 24$

3. $6 \cdot (3 \cdot y - 4) + 2 \cdot (5 + y) = 66$ 4. $4 \cdot (7 \cdot y - 3) + 4 \cdot (8 + y) = 148$

5. $(8 \cdot y + 7) + (3 \cdot y - 7) = 44$ 6. $5 \cdot (3 \cdot y - 5) + 5 \cdot (4 + y) = 75$

7. $3 \cdot (2 \cdot y - 5) + 8 \cdot (5 + y) = 81$ 8. $7 \cdot (2 \cdot y - 4) + 7 \cdot (8 + y) = 112$

9. $(3 \cdot y + 3) + (7 \cdot y - 7) = 36$ 10. $3 \cdot (2 \cdot y - 2) + 5 \cdot (8 + y) = 78$